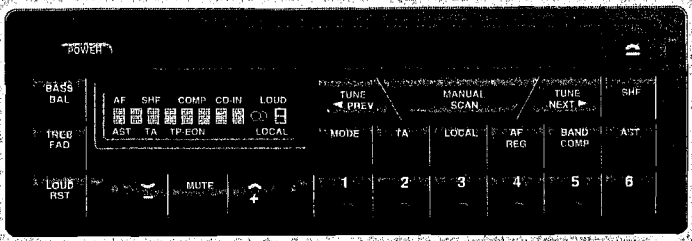
PHILIPS

PHILIPS

22DC964

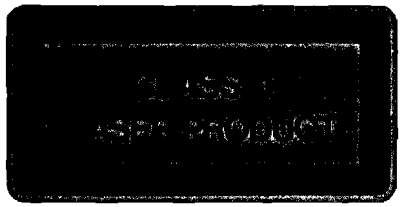


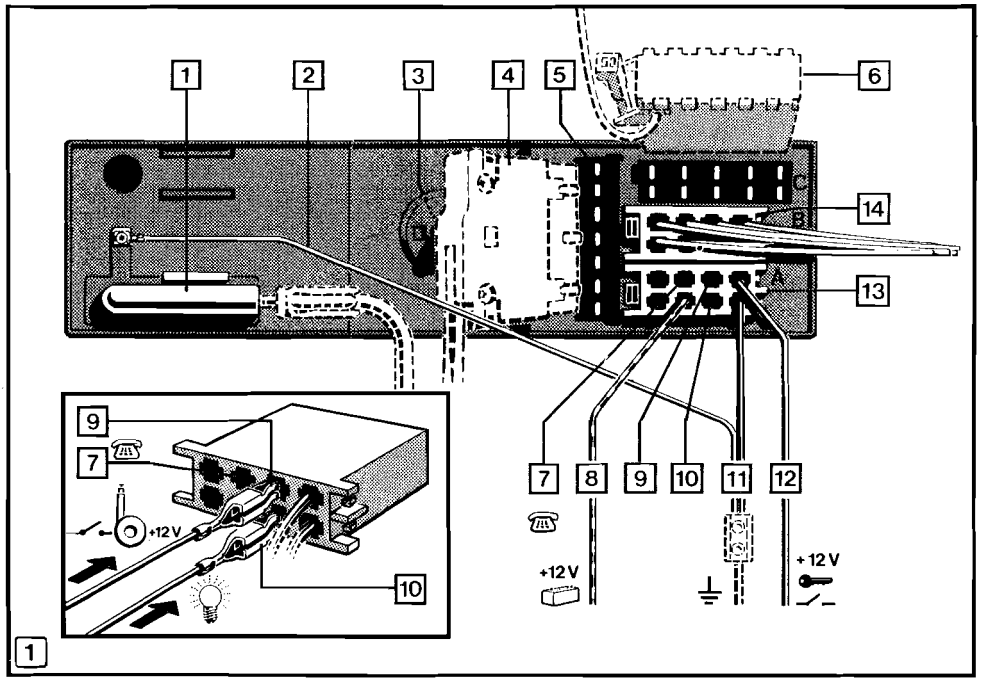
Philips DC964

CAR RADIO / CD COMBINATION

Operating instructions
Mode d'emploi
Bedienungsanleitung
Gebruiksaanwijzing
Istruzioni d'uso
Instrucciones de manejo
Bruksanvisning

Philips Car Stereo

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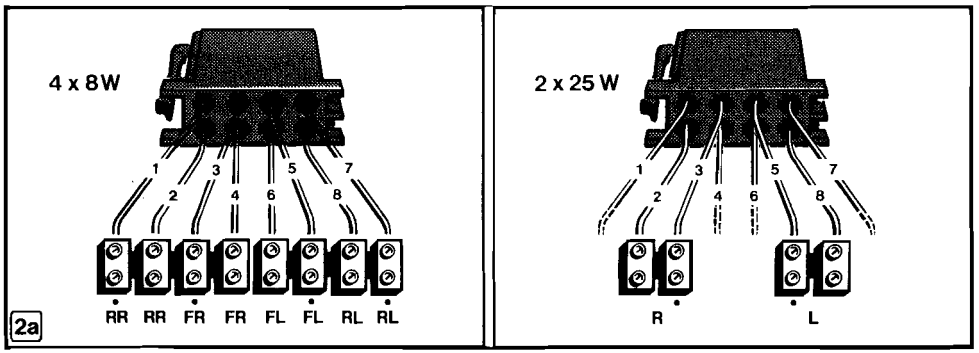
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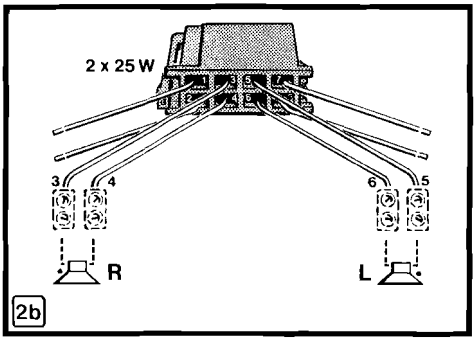
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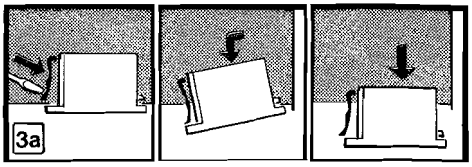
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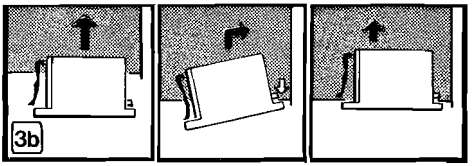
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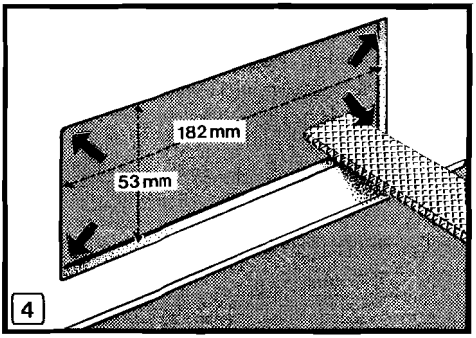
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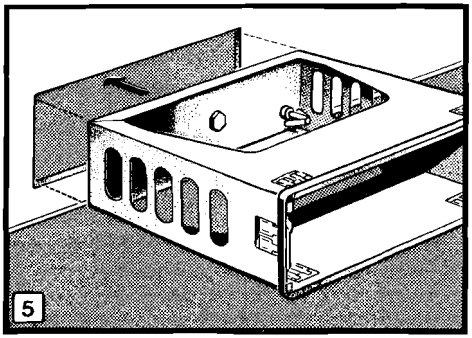
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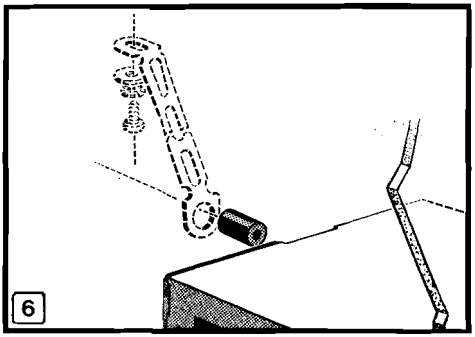
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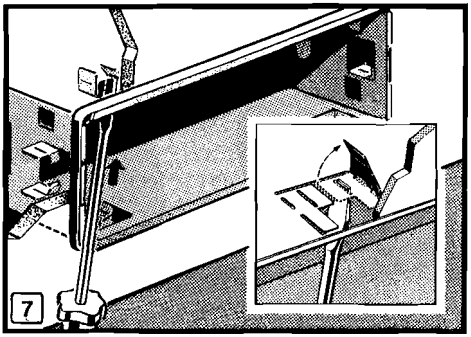
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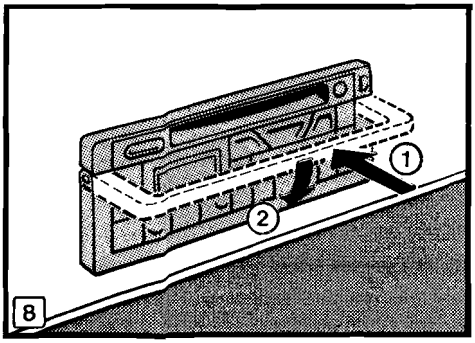
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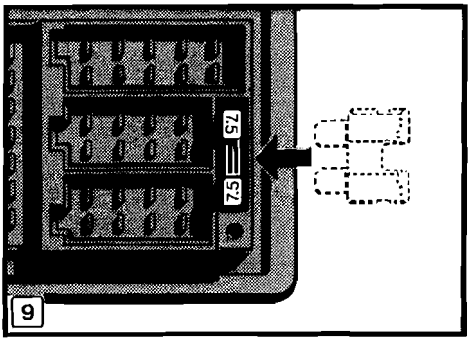
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INTRODUCTION

This revolutionary set is the first combination of an **RDS Car Radio** and an **integrated CD player**.
Ease of operation was the first priority in designing this unit.

Compact Disc Playback: Via the integrated **CD player**, containing the ONE BIT STREAM conversion you can enjoy high quality sound reproduction. Moreover this set is prepared for control of a dedicated **6 discCD changer (DC082)** that can be built into the luggage boot.

Radio: The new RADIO DATA SYSTEM CORDS automatically tunes to the strongest transmitter of the same station while displaying the name of the station.

– The reception of traffic information can prevent delays during driving. The messages are received via the tuned station or via other networks, even during CD playback.

– You can pre-program six preferred stations per band on the presets. Including the two Auto-Store bands (FM-AST and MW-AST) 36 stations in total can be recalled.

The Car Radio/CD Player produces quality sound via the 2 x 25 W amplifier.
A Line Output enables extension of the total output via an additional amplifier.

Sound adjustment: The function of bass and treble, front/rear and left/right balance is selected by two buttons. After selection of the function the adjustment is done by the two volume buttons.
Bass and treble can be set separately for FM, for AM, and for Compact Disc playback. Each setting is automatically stored in the memory.

Security against theft: You can remove the set from the 'Quick-Out' housing, if you want to take it with you when leaving, the car.
Or you can secure the installation electronically with the special Security Code (see your 'passport').

Telephone: The set is prepared for connection of a telephone in your car. If connected the audio reproduction of radio and CD is automatically interrupted during a call.

SUMMARY OF CONTROLS

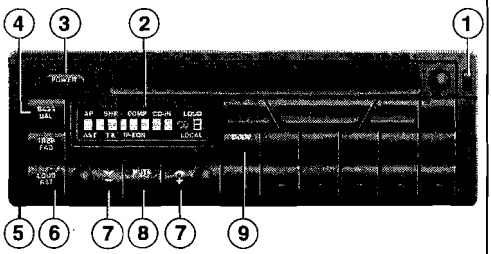
Important

Both the **Security Code** number and the **identification number**, are stated on the passport that is supplied with the set.
The identification number (also cut into the side of the housing) counts as proof of ownership.

- Keep this 'passport' safe, for example with your car documents, but **never** in your car.

*This car radio has an **RDS (Radio Data System)** decoder for reception of RDS signals on FM. For more information, see 'RADIO RECEPTION'.*

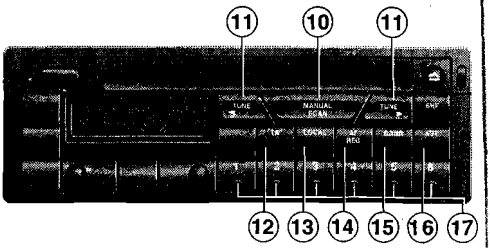
GENERAL CONTROLS



(1) Release-handle key
(2) Display
(3) On/off-switch (POWER)
(4) Bass (BASS) / Balance (BAL) selector
(5) Treble (TREB) / Fader (FAD) selector
(6) Loudness (LOUD) / Audio reset (RST)
(7) Audio - ⌣ / ⌢ + keys for adjustment of volume, bass, treble, balance, and fader
(8) Audio mute (MUTE)
(9) Selector between radio reception and compact disc playback via internal CD player or (optional) via an external CD changer (MODE).

Be careful not to damage the digital display by pushing or rubbing it!

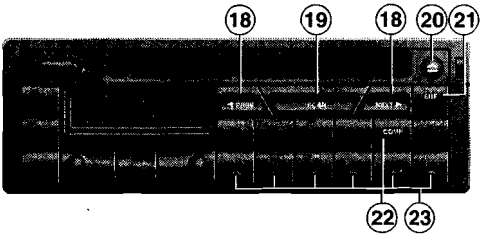
RADIO CONTROLS



(10) *(Press briefly:)* Selector for manual or search tuning (MANUAL)
(Press longer:) To search and tune to each FM station for 10 seconds (SCAN)
(11) Tuning downwards and upwards in frequency (◄ TUNE or TUNE ►)
(12) Traffic information (TA = Traffic Announcement)
(13) Selector for local stations (LOCAL)
(14) *(Press briefly:)* RDS AF checking on/off (AF = Alternative Frequency)
(Press longer:) Regional programme checking on/off (REG)
(15) Waveband selector FM, FM-AST, MW, MW-AST, LW or SW (BAND)
(16) Auto-store *(on FM and MW only)* to program the six strongest stations (AST)
(17) Station presets (1 - 6).

COMPACT DISC PLAYER (or DC CHANGER) CONTROLS

Remark: Following functions are also valid for a CD changer (if installed).



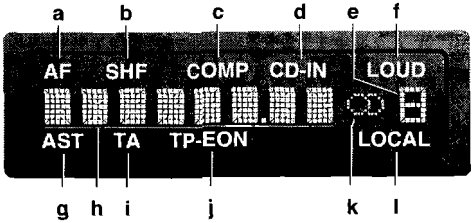
(18) To select previous and next track(s) or fast forward play or backward (◄ PREV and NEXT ►)
(19) To play each track for 10 seconds (SCAN)
(20) Eject of the compact disc (⏏)

(21) Shuffle key (SHF)
(Press briefly:) Selection of titles at random on the current disc

(22) Compression of sound dynamics (COMP)

(23) *(For CD changer only:)* Keys to select a disc.

DISPLAY INDICATIONS



a AF: *(constantly lit)*
if RDS (= Radio Data System) mode is switched on and the currently-tuned station broadcasts RDS.
AF: *(flashing)*
if AF is switched on but the currently tuned station does not broadcast RDS signals, or is too weak.

b SHF: The tracks are played at random.

c COMP: CD sound is compressed (only during CD operation).

d CD-IN: CD is in the player.

e Preset station (1 to 6) is selected, or (if connected) a disc in the changer is selected.

f LOUD: Loudness is switched on.

g AST: *(constantly lit)*
Auto-Store band is chosen.
AST: *(flashing)*
Auto programming is in process.

h *During radio reception:*
Waveband and frequency, **or** (on FM only) the RDS station.
During audio adjustment:
BASS, BAL, TREB or FAD and their settings.
During compact disc operation:
The track number and elapsed time or the words NEXT, PREV, RESTART, SCAN.

i TA: (= Traffic Announcement)
The radio is in the TA mode.

j TP: (= Traffic Programme)
Indication that the transmitter can broadcast traffic information.
TP-EON : Traffic messages can be received from other networks EON (= Enhanced Other Networks).

k ∞ : Stereo reception can be received (on FM only).

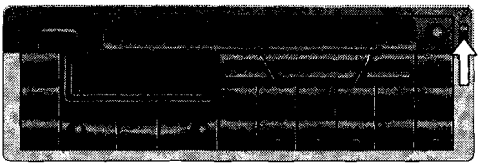
l LOCAL: Reception of strong or local stations.

GENERAL

INSERTING AND TAKING OUT RADIO

Note: First take out the CD before you pull out the set.

- Push the handle release key. The handle comes free.
- Pull the set straight out of the housing.

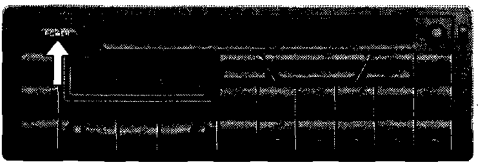


- Slide the set into the housing.
- Push the handle downwards.

Before you drive off, always check that the handle is fully pushed down to lock the set into position.

ON/OFF — POWER

ON: Press the POWER key. The display lights up.



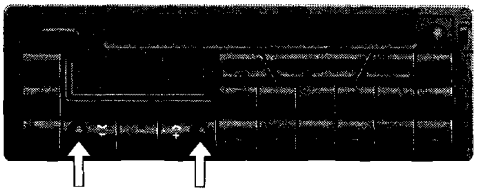
OFF: Press the POWER key again.

If you pull the set out of its housing *before* switching off, press POWER after inserting again. If pulling it out during CD playback, the set starts with radio reception afterwards.

SOUND ADJUSTMENT

– The VOLUME keys normally function as volume control. The same keys are also used to adjust bass, treble, balance and fader (as described below).

– After about 10 seconds the ⌃ and ⌄ keys automatically change back to volume control. Alternatively, you can immediately return to volume control by briefly pressing the BASS/BAL or TREB/FAD key.



VOLUME — ⌃ or ⌄

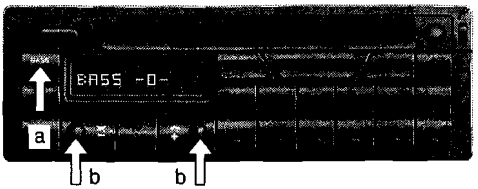
- Adjust the volume with the ⌃ or ⌄ key for higher or lower volume.

If the volume was set at a high level, the radio starts again at a lower level after switching on. Then the volume increases gradually.

BASS — BASS

a. Briefly press the BASS key.

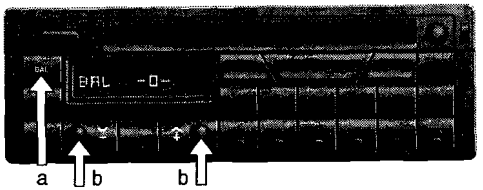
The display shows 'BASS' and the current setting.



b. Adjust within 10 seconds the bass between **7** - - and - - **7** * with the ⌃ or ⌄ key.

BALANCE BAL

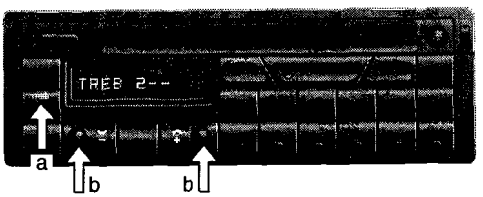
a. Press the BAL key for at least 2 seconds.
The display shows 'BAL' and the current setting.



b. Adjust within 10 seconds the balance between **9 - -** and **- - 9** * with the ⌄ or ⌃ key.

TREBLE TREB

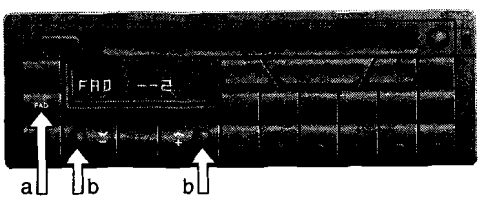
a. Briefly press the TREB key.
The display shows 'TREB' and the current setting.



b. Adjust within 10 seconds the treble between **7 - -** and **- - 7** * with the ⌄ or ⌃ key.

FADER FAD

a. Press the FAD key for at least 2 seconds.
The display shows 'FAD' and the current setting.



b. Adjust within 10 seconds the fader between **9 - -** and **- - 9** * with the ⌄ or ⌃ key.

If only 2 loudspeakers are connected, set the fader control to the mid-position (**FAD - 0 -**).

*
– In the mid position (**- 0 -**) you will hear a beep ♫.
– Ten seconds after the adjustment the ⌄ and ⌃ keys are set for volume adjustment.
– Alternatively, you can immediately return to volume control by briefly pressing the BASS/BAL or TREB/FAD key.

Treble and bass settings

The set memorises the last-used treble and bass settings for each of:

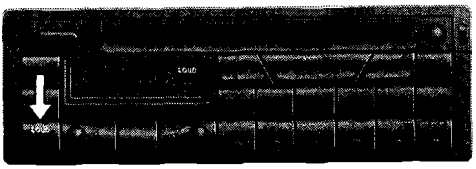
1. The FM band,
2. Traffic information on FM (setting only during traffic announcement possible),
3. AM (= MW, LW and SW) bands,
4. CD reproduction.

● Set your own bass and treble preferences for each of these selections.

LOUDNESS LOUD

You can increase the high and low notes with the LOUD key. This is often desirable at low volume settings.

ON: Briefly press the LOUD key.

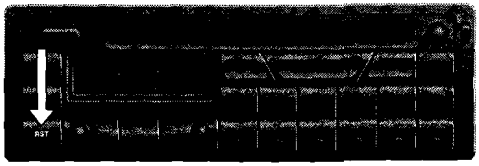


– The display shows 'LOUD'.
– Treble and bass are amplified more.

OFF: Briefly press the LOUD key again.

AUDIO-RESET RST

Treble, bass, fader and balance can be reset to the neutral position (- **0** -). Also loudness is switched off.



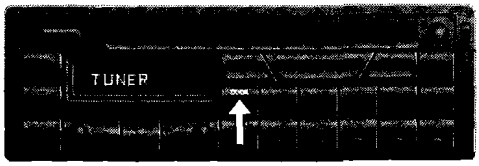
- Press the RST key *long* (for about 2 seconds).

This zero-adjustment (reset) will reset **all** audio settings simultaneously and you hear a beep ♫.

RADIO or CD PLAYBACK MODE

Only press MODE key if there is a disc in the CD PLAYER.

- Press the MODE key one or more times.



– If a CD changer with loaded magazine is connected, the display shows after each press for a moment:
TUNER or **CDPLAYER** (if a CD is inserted), or **CHANGER.**

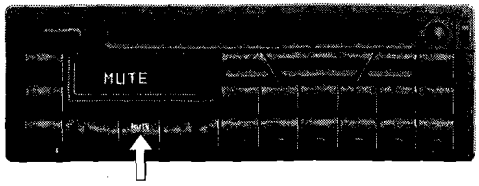
– The source chosen starts functioning after some seconds so that you can switch e.g. from radio to CD changer by pressing the MODE key twice.

– If no CD changer is connected the display shows **TUNER** or **CDPLAYER.**

Now consult chapters:
SOUND ADJUSTMENT,
RADIO RECEPTION, or
CD-PLAYER /-CHANGER.

SOUND INTERRUPTION MUTE

ON: Press the MUTE key.



– The sound will mute.
– The display shows 'MUTE'.

Note: If the radio is in the TA mode, you will still hear traffic messages when broadcast. (See 'TRAFFIC INFORMATION on FM').

The silent period is also released if you:
1. Press MUTE or another key.
2. Insert a compact disc.
3. Switch the radio **off** and **on.**

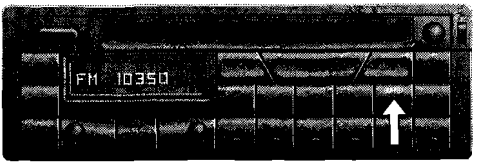
When the telephone rings ☎

– If a car telephone has been connected, the radio or CD playback will mute when the telephone rings. The display shows 'PHONE'.
– After the telephone call radio reception or CD playback is continued.

RADIO RECEPTION

WAVEBAND BAND

• Select the desired waveband with the BAND key.

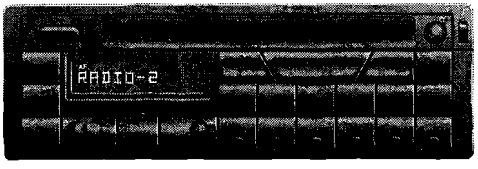


The display shows:
FM: for FM,
FM-AST: for FM Auto-Store,
MW: for medium wave (MW),
MW-AST: for MW Auto-Store,
SW: for short wave (SW), or
LW: for longe wave (LW).

TUNING TO A STATION

You can tune to a station using any of the following methods:
Search tuning
Manual tuning
Recalling a station with the presets.

WHAT IS RDS on FM?



RDS (Radio Data System) is a system gradually being used **on FM** in many countries.
Inaudible digital codes are transmitted in addition to the normal radio signal. These codes contain various information including:

1. Programme **S**ervice name (**PS**) - The radio displays the station name instead of the frequency.

2. A list of **A**lternative **F**requencies (**AF**) for the radio station being received. The radio automatically selects the best one, always maintaining the best possible reception (**AF mode**).

3. A **P**rogramme **I**dentification code (**PI**) which includes an indication as to whether the programme is national, regional or local.

4. A traffic information system; (**TA** = **T**raffic **A**nnouncement, **TP** = **T**raffic **P**rogramme).

5. EON (**E**nhanced **O**ther **N**etworks): Information from other networks is received of which certain information e.g. traffic messages can be received.

The most important feature of the RDS radio is the 'AF mode', using the codes for programme identification (PI) and alternative frequencies (AF).

The alternative frequencies (digitally coded) are followed and examined on signal strength, multipath distortion and distortion from adjacent transmitters ect. The RDS radio takes all the relevant parameters into account when judging the reception quality. It switches automatically to the frequency with the better signal.

Reception of RDS stations

– When you switch on the set and select the FM band, the 'AF' mode is **always** active.
– If an RDS transmission is received, the display shows the station name and the 'AF' indication is **constantly** lit.
– It is possible that, in certain reception conditions, it takes some time before the required station name is displayed.

What happens in fringe areas

– If you drive to the limits of the reception area, the display shows AF flashing. Now the 'AF' mode, in which the set follows the alternative frequencies, can not function as the signal has become too weak.

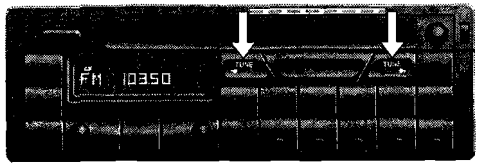
– However the radio remains on the last tuned frequency and the display shows the station *name*.
If you switch the radio **off** and later **on** while you are outside (or at the limit of) the station's reception area, the display shows 'SEARCH' and the station name alternately.

– The radio searches the waveband twice for the last tuned station. If it cannot find the same station (based on PI code) it tunes to the last tuned frequency. Now the display shows the *frequency*.

• Press one of the preset keys, if you want to interrupt the radio from searching.

To see the frequency

• Press **both** keys ◄TUNE and TUNE► simultaneously if you want to see the tuned frequency for about 10 seconds.



Reception of non-RDS stations

If a non-RDS transmission is received, the 'AF' indication flashes in the display. This indicates that there is no RDS information.

Switching off AF mode

• If you want to prevent the radio from retuning to alternative frequencies, briefly press the AF key.

The 'AF' indication goes out and the radio stops checking alternative frequencies.

• To switch **on** again, briefly press the AF key.

Notes

– The AF mode is activated again if you tune to another RDS station.

– If you store a frequency on a preset when the 'AF' mode is switched off (AF not on display), the radio will not check for alternative frequencies whenever you select this preset.

Regional programmes

A national radio network broadcasts the **national** programme using a number of transmitters. The programme is the same for all transmitters. However from time to time (e.g. from 12:00 to 13:00) the transmitters of this network may broadcast **regional** programmes. Each programme is different and relevant for a typical region.

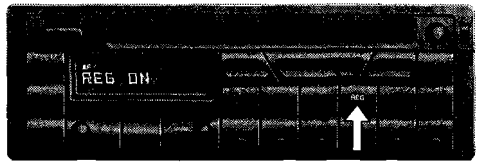
With the RDS system you can switch 'regional checking' **on** (REG ON) or **off** (REG OFF) for the region where you are.

REG ON: The radio remains tuned to the current regional programme, even if you drive out of the reception area.

REG OFF: The radio checks all alternative frequencies of the network, regardless of regional programme differences.

Selecting REG ON or REG OFF

• Keep the REG key pressed (about 2 seconds) until you hear a beep ♫.



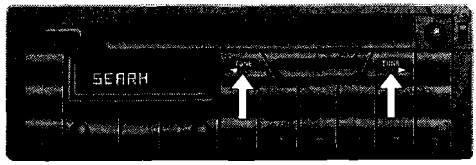
The display shows 'REG ON' or 'REG OFF' for a short while.

SEARCH and MANUAL TUNING

You can use the TUNE keys in two different tuning modes: search or manual tuning. When you switch on the radio it is in **search tuning** mode. You can switch to **manual tuning** mode if desired (see 'MANUAL TUNING').

SEARCH TUNING

Use search tuning to quickly search for a station.



• Briefly press the ◄TUNE or TUNE► key.

TUNE► = higher frequency;
◄TUNE = lower frequency.

You will receive a station after a short time.

• To search for another station, press the same key again.

– The display shows SEARCH until a new station is found.

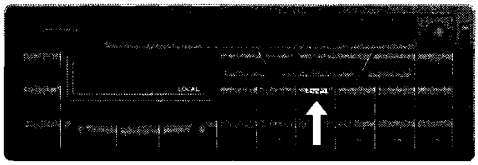
– Whether strong or also weak stations are tuned is dependent on the local or distant mode adjustment.
– If the radio tunes to a station which has been stored on one of the presets, the display also shows the preset number.

Note: If the radio is in the TA mode, the radio will only search for traffic stations (See TRAFFIC INFORMATION on FM).

LOCAL / DISTANT LOCAL

When switching on, the radio is always in the last selected mode (LOCAL off or on).

ON: Press the LOCAL key. The display shows 'LOCAL'.



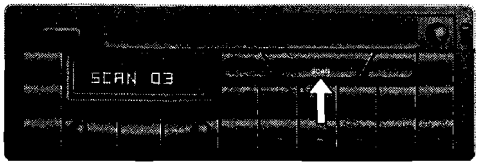
Only stations with strong signals (typically closer stations) are selected. Weaker stations are skipped.

OFF: Press the LOCAL key again.

STATION SCAN SCAN

SCAN gives you a quick impression of all FM and MW stations. They are searched automatically.

ON: Press the SCAN key for at least 2 seconds.

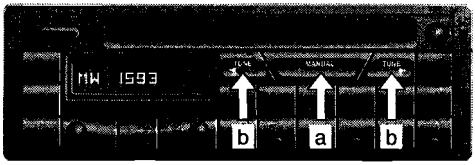


– The display shows 'SCAN' during the search action.
– When a station is tuned the display shows the frequency in the current waveband for 10 seconds.
– The radio scans first the strong and then the weaker stations.
– You will hear each station in turn for 10 seconds.
– Which stations are tuned depends on the local/distant mode and the TA mode.

OFF: Press the SCAN key again if you want to receive the last tuned station.

MANUAL TUNING MANUAL

Use manual tuning if you know the frequency of the station.



To switch from search to manual tuning

a. Briefly press the MANUAL key.

b. Tune with the TUNE ◄ / ► keys:

Fast: Keep the ◄TUNE or TUNE► key pressed until you come close to the desired frequency.

Accurate: Briefly press the ◄TUNE or TUNE► key as many times as needed until you have found the exact frequency.

Manual tuning will *automatically* switch back to search tuning mode if:
1. The TUNE ◄ / ► keys are out of use for longer than 50 seconds.
2. The radio is switched **off** and **on**, or
3. the BAND key, a preset key (1 - 6) or the AST key is pressed.

PRESETS 1 - 6

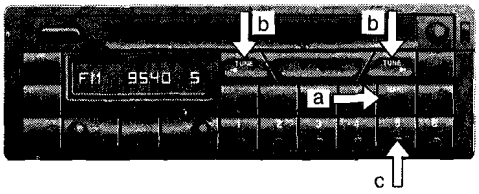
Programming stations

This radio has storage locations for 36 stations on the preset keys.

6 x FM (Individually-stored FM stations)
6 x FM AST (Automatically-stored FM stations)
6 x MW (Individually-stored MW stations)
6 x MW AST (Automatically-stored MW stations)
6 x LW (Individually-stored LW stations)
6 x SW (Individually-stored SW stations)

Storing a station

a. **BAND:** Select FM, FM-AST, MW, MW-AST, LW or SW with the BAND key.
b. **TUNE ◄ / ►:** Tune-in the desired station (see chapter 'SEARCH TUNING' or 'MANUAL TUNING').
c. PRESET: Keep the desired preset key (1 - 6) pressed until you hear a beep ♫ (after 2 seconds).
d. Program the other presets in the same way.
e. Repeat the above-mentioned operation for the other wavebands.



– The display shows the waveband, the frequency and the preset number on which the station has been stored.
– If a station with traffic information and/or RDS information is found, the AF mode and TA mode (if switched on) are stored.

Recalling a station

a. **BAND:** Select FM, FM-AST, MW, MW-AST, LW or SW with the BAND key.
c. **PRESET:** Select the desired preset key (1 - 6).

AUTO-STORE on FM and MW AST

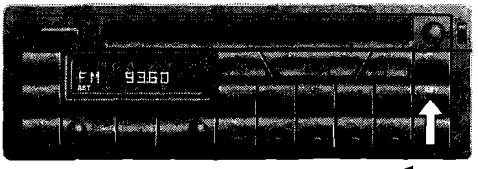
By simply pressing only one key you can automatically store six FM stations (on the FM-AST band) or six MW stations (on the MW-AST band).

When travelling through different reception areas, you can use Auto-Store to quickly find the strongest stations.

When you use Auto-Store, the new stations ***replace*** *any stations previously stored on the FM-AST band or the MW-AST band.*

Automatically storing stations

AST: Briefly press the AST key.



– The radio mutes and you hear a beep ♫.
– The radio starts searching from the current frequency.
– The radio stores 6 stations on the FM-AST or MW-AST band.
– The AST indication flashes until the 6 stations (if available) are stored.
– When the store action has finished you hear a beep ♫ again.
– You then hear the Auto-Store station on preset 1.

Notes

– It is **also** possible to store stations in the FM-AST and MW-AST band **manually** (See 'Storing a station').
– If six stations cannot be found the remaining presets are programmed with '0000'.
– Auto-Store is not possible on LW and SW. If then the AST key is pressed, you hear an error beep.

Selecting automatically stored stations

BAND: Select FM-AST or MW-AST with the BAND key.
PRESET: Press one of the presets (1 - 6).

MONO/STEREO RECEPTION ∞

When selecting the FM band the radio switches to **stereo mode**.
However, the display shows ∞ only when a **stereo signal** is received.

– If the station gets weaker, the radio changes automatically and smoothly to mono reproduction and the indication ∞ disappears.
– If the stereo signal gets stronger again, the radio changes back to stereo reproduction.
– **Note:** When changing the station the rodio always returns to stereo mode.

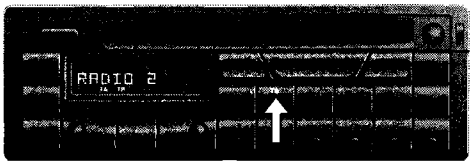
TRAFFIC INFORMATION via RDS

Important: The TA button should **only** be used in countries where traffic information is broadcast.

The abbreviations used in the display mean:
TA= **T**raffic **A**nnouncement: You have chosen for only receiving stations broadcasting traffic information. The radio programme as well as the CD reproduction can be interrupted be traffic messages.
TP= **T**raffic **P**rogramme: The radio is tuned to a station broadcasting traffic information from time to time.
EON= **E**nhanced **O**ther **N**etworks; the digital codes contain also information from other networks, for instance data to receive relevant traffic announcements for the area where you drive.

Traffic information stations only

- Select FM or FM-AST with the BAND key.
- Press the TA key. The display shows 'TA'.



– If the radio is tuned to a station broadcasting traffic information, the display shows 'TA' and 'TP'.
– The TA mode can also be activated when playing a CD.
– If no traffic information station can be found, you hear a warning tone after 30 seconds.
– The TA mode can automatically be programmed on the preset keys.

Traffic announcements from other stations

If you are tuned to an RDS station **not** broadcasting traffic information, this radio enables you to receive traffic announcements via another network. (At the moment not yet in all countries).

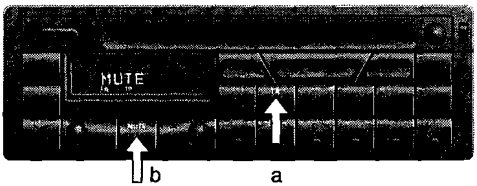
- Press the TA key.

If traffic information is broadcast by the other network:
– The radio switches to that other network temporarily.
– The display shows 'TA', 'TP-EON' and the frequency, followed by the station name of that other network.

– After the message has finished the radio switches back to the first tuned station.

Traffic information only (during radio reception)

a. Press the TA key.
b. Press the MUTE key.



– The radio mutes.
– The display shows 'MUTE', 'TA'.
– When receiving traffic information the display shows the frequency or the station name instead of 'MUTE'.
– You hear the traffic message at the sound level previously adjusted for TA mode.

To switch off MUTE: Press the MUTE key, one of the ⌃VOL / VOL⌄ keys, or one of the radio keys.

MUTE disappears from the display. You hear the tuned station.

Traffic information during CD playback

To switch on: Briefly press the TA key.

– CD playback stops when traffic information is broadcast.
– The display shows 'TA', 'TP' or 'TP-EON', and during traffic messages the frequency/station name instead of the track number and the elapsed time.
– After the message CD playback is resumed.

To skip a traffic message

If you no longer wish to hear this message:
• Press the TA key so **long** until you hear a beep ♫.

– Traffic information stops.
– CD playback is continued.
– The TA mode *remains switched on.*

To switch off the TA mode

• **Briefly** press the TA key.

– The TA mode *is switched off.*
– The message (if broadcast) stops.
– CD playback is continued.

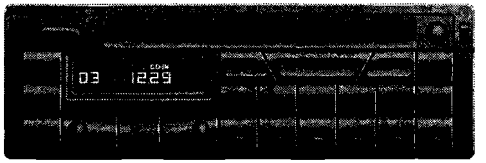
COMPACT DISC PLAYER

General: All CD functions as described below are also valid for the CD changer (if connected).
– The CD player is suitable for both 12 cm and 8 cm (singles) discs.

• **Always take the disc out of the player before you pull out the set.**

DISC PLAYBACK

• Switch on the set (POWER).
• Ensure that the label is facing up, otherwise the compact disc will be ejected.
• Slide a compact disc in the slot. Playback starts automatically.



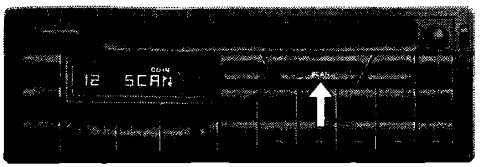
The display shows:
– The indication **'CD-IN'**.
– **'CD PLAYER'** for a moment and then:
– The current **track number** e.g. 03.
– *For CD player only:* The total **elapsed time** in minutes and seconds e.g. 12.29.

Remark: If the CD changer is selected the display shows also the **number** of the chosen disc.

FAMILIARIZATION WITH THE DISC (SCAN)

SCAN gives you an impression of all the tracks on the disc.

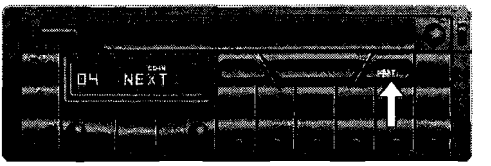
ON: Press the SCAN key.



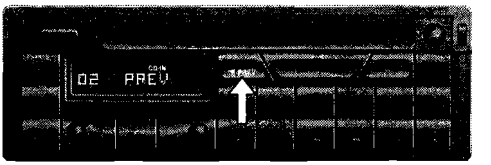
– The display shows the track number and SCAN.
– Each track number is played for 10 seconds e.g. track 03, 04, 05 etc.

OFF: Press the SCAN key again (or any other key) if you have found the desired track.

SEARCHING FOR A PREVIOUS OR NEXT TRACK



• Press the ◄ PREV **or** NEXT ► key once or more times until the desired track number appears in the display.

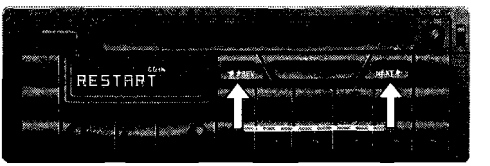


– The display shows the track number and 'PREV' or 'NEXT'.
– Playback is continued.

Note: To return to the beginning of a number just played, press the ◄ PREV key once.

RESTARTING

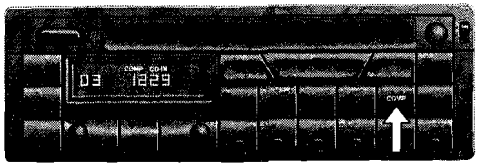
• Press the ◄ PREV **and** NEXT ► keys simultaneously.



– The display shows 'RESTART'.
– The first track number is played.

COMPRESSING THE SOUND COMP

ON: Press the COMP key for at least 2 seconds. The display shows 'COMP'.

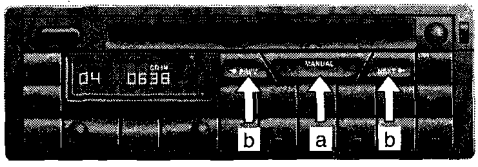


– There are discs (especially with classical music) which contain an extremely wide dynamic range (= the difference between the highest and the lowest sound levels).
– For these discs it may be desired to compress the dynamics because the lowest passages can hardly be heard when the ambient noise is high.
– Now the low passages will be amplified and the loud passages attenuated.

OFF: Press the COMP key again for at least 2 seconds.

SEARCHING FOR AN EARLIER OR A LATER PART OF TRACK

a. Briefly press the MANUAL key.
b. Keep the ◄ PREV or NEXT ► key pressed if you want to repeat or to skip a part of the disc. If you release the key, playback is resumed.



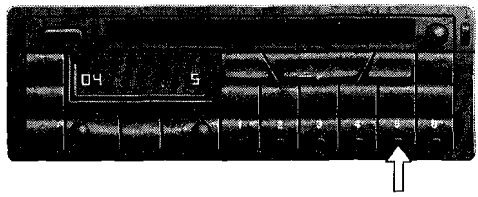
– The display shows the elapsed time.
– You hear the audio signals.

OFF: Press the MANUAL key again.

The function 'fast forward and backward' is also released if you:
1. Press the MODE key.
2. Press the ≙ key.
3. The keys ◄ PREV / NEXT ► are not used for more than 10 seconds.

SELECTION OF THE DISC

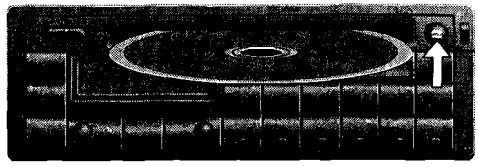
(Only for the CD changer, if connected)
• Press one of the preset key (1 - 6) to select the desired disc.



– The display shows the **track number** and the **disc number** at the right side.
– Playback is continued, starting with the first track.

EJECTING DISC ≙

• Press the eject ≙ key.

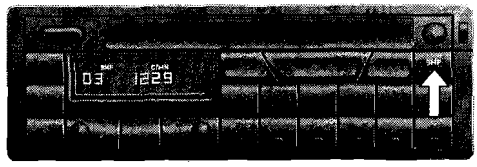


– The disc comes out.
– The set switches to radio.

• Carefully take the disc out within 15 seconds; otherwise the player takes the disc back.

TRACKS CHOSEN AT RANDOM SHF

ON: Press the SHF (= shuffle) key.

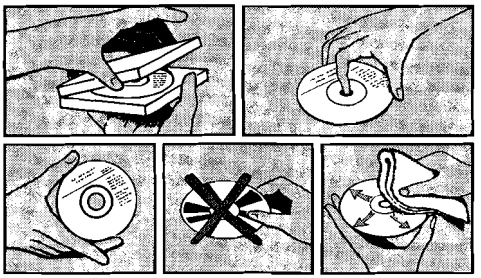


– The display shows the indication 'SHF'.
– The player plays the titles in a random manner.

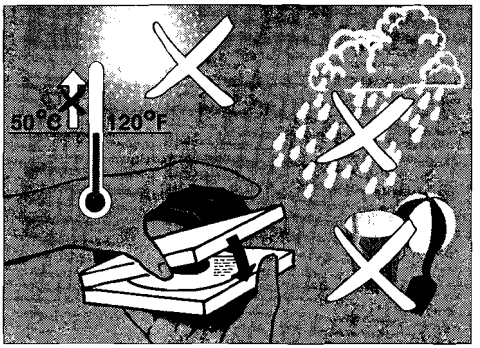
OFF: Press the SHF key again or if you want to leave CD playback press the MODE key.

GENERAL

Fingerprints: Avoid making fingerprints on the disc when you take it out.



Storage: Put the disc back in its box immediately after ejecting it, to protect the disc from damage and dust. Do not expose the disc to heat or direct sunlight.



CLASS 1 LASER APPLIANCE

WARNING: If the appliance is used in a way differing from that what is specified in the instructions for use, the user may be exposed to invisible laser radiation exceeding the limit of laser class 1.

SECURITY CODE

TO REDUCE THE RISK OF THEFT ....

– This car radio has a specific four-figure **Security Code**.
– A unique **indentification number** is engraved on the side of the set.
– **Quick-out:** You can slide the set out of the housing and take it with you when leaving you car.

When the set is delivered, the Security Code has NOT been activated. You can activate the code after installation.

When to activate the Security Code

If you always pull the set out of the housing and take it with you when leaving your car, the Security Code need not be activated.

However, if the Security Code has been activated, the correct code must be entered each time the set is inserted in the housing.

Note: *Activate the Security Code if you cannot take the set with you or when you are unable to leave the set in a safe place.*

HOW THE SECURITY CODE WORKS

If the Security Code has been activated and the power supply is interrupted (e.g. if the set is stolen) the set will not operate until the **correct code** has been entered.

The set is useless to anyone who does not know the correct Security Code. There are 10 000 possible codes; each time an incorrect code is entered a waiting period commences. Only after the waiting period has finished can another code be entered.

ADVICE

- Make sure you have the 'Radio passport'. This is supplied with the set. It states the set's Security Code and identification number.
- Keep the 'Radio passport' in a safe place, for example with your car documents, but never in your car.
- Stick the 'Security Code' warning stickers (supplied) on your car windows.

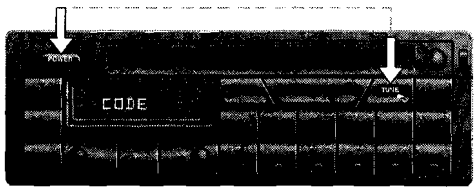
CHECKING WHETHER THE SECURITY CODE IS ACTIVE

If the Security Code is active, the display briefly shows 'CODE' each time the set is switched on.

ACTIVATING THE SECURITY CODE

- While keeping the TUNE ► key pressed, switch on the set (POWER), and **keep the TUNE ► key pressed** until you hear a beep ♫.

The Security Code is now active.



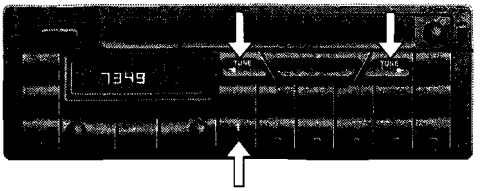
IF THE POWER SUPPLY HAS BEEN INTERRUPTED ....

If the Security Code has been activatied and the power supply has been interrupted, the set will mute and the display shows 'CODE'. The correct code must be entered before the set will function.

ENTERING THE CODE

- Switch on the set (POWER).
- Press preset 1 key.
- Press with TUNE ◄ or ► key until the display shows the **first** figure of the Security Code.
- Press preset 1 key again.
- Press with TUNE ◄ or ► key until the display shows the **second** figure of the Security Code.
- Press preset 1 key again.
- Press with TUNE ◄ or ► key until the display shows the **third** figure of the Security Code.
- Press preset 1 key again.
- Press with TUNE ◄ or ► key until the display shows the **fourth** figure of the Security Code.

- Press preset 1 key once more.



Example: Assuming the correct code is 7349.

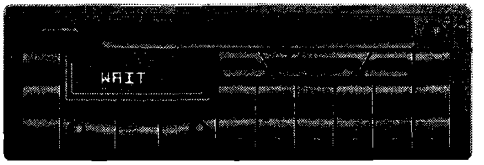
Action	**Display**
Switch on the set with POWER	CODE
– Press key 1	-
Select 7 with TUNE ◄ or ►	**7**
– Press key 1	7 -
Select 3 with TUNE ◄ or ►	7 **3**
– Press key 1	7 3 -
Select 4 with TUNE ◄ or ►	7 3 **4**
– Press key 1	7 3 4 -
Select 9 with TUNE ◄ or ►	7 3 4 **9**
– Press key 1	

If the correct code was entered:

The set gives a beep and will then function normally.

If an incorrect code was entered:

– The set gives an error beep. The display shows 'WAIT'.



– You must now wait for 1 minute before another code can be entered.

– During this waiting period the set refuses all codes, even the correct code.

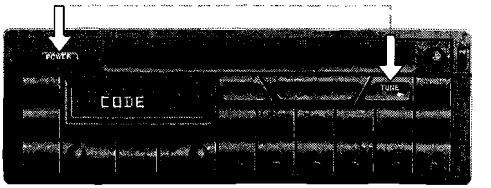
– Do **not** switch off the set during the waiting period! The waiting time will start all over again when the set is switched on.

– After the waiting period is over, the display shows 'CODE'.

- Enter the correct code (as described above).

– The waiting period is **doubled** each time an incorrect code is entered (1 minute, 2 minutes, 4 minutes etc.).

DEACTIVATING THE SECURITY CODE



- Switch **off** the set.
- While keeping the TUNE ► key pressed, switch on the set (POWER) and **keep the TUNE ► key pressed** until the display shows 'CODE'.
- Enter the correct code according to example in chapter 'ENTERING THE CODE'.

You will hear **two** beeps indicating that the Security Code is deactivated.

If an incorrect code is entered you have to follow the same procedure as described in 'ENTERING THE CODE'.

IN CASE OF REPAIR

If the system has to be repaired by your dealer or a service agency, you are requested to proceed as follows:

a. Deactivate the Security Code, **or**
b. Write the Security Code on a label and attach it to the housing.
– After repair, **remove the label** from the set.

MOUNTING INSTRUCTIONS

Refer to the illustrations on pages 3 – 4 while reading these instructions.

GENERAL

Remove the 'passport' from the set before installing the set.

Voltage and polarity: The set must be connected to a 12 V car battery with negative terminal to earth (car chassis).

Warning: To prevent short-circuiting, **disconnect** the negative car battery terminal until the set has been mounted and connected.

Aerial

The choice of aerial depends on the type of car. Position the aerial as far as possible from the ignition assembly. The aerial earthing bar or strap must contact clean metal. Protect this contact against corrosion with silicone grease or another rust preventer.

Loudspeakers

Only use loudspeakers having an impedance of 4 ohms.

To avoid damage to the amplifier NEVER connect two 4 ohm loudspeakers in parallel.

The sound distribution is improved when two speakers are mounted in the front and two loudspeakers (via an additional amplifier) in the rear of the car.

Preferably mount speakers in positions giving good acoustics. For example: left and right in dashboard; as high as possible in the doors; or on the rear parcel shelf.

PREPARATION

Mounting aperture (Fig. 4)
The housing is suitable for a radio mounting aperture according to DIN and ISO standards (dimensions: 182 × 53 mm).

- Check that the housing fits into the mounting aperture. If necessary, square off the corners of the mounting aperture with a file.

CONNECTIONS (Fig. 1)

[1] Aerial socket
[2] Earth lead (brown)
[3] Rear support stud
[4] Line plug of adapter cable or external amplifier (optional)
[5] Line-out socket (LINE OUT)
[6] Multi-plug of CD changer (optional)
[7] Telephone mute connection ☎
[8] 12 V permanent supply lead (yellow/red)
[9] Connection for night illumination ☼ of the POWER switch (even when the set is switched off)
[10] Connection for 12 V switching voltage for an electronic aerial or the relay of an automatic motor aerial
[11] Earth lead (brown)
[12] 12 V supply lead (red)
[13] Power supply multi-plug
[14] Loudspeaker multi-plug.

ADAPTER CABLES

Many makes of car are equipped with a car radio connector. For these makes, specific adapter cables are available. Consult your dealer for the correct type.

CONNECTIONS WHEN USING AN ADAPTER CABLE

- Remove the existing connectors [13] (for power supply) and [14] (for loudspeakers) from the housing (Fig. 3a).
- Insert the connectors from the adapter cables into the correct holes in the housing (Fig. 3b).
- Connect earth lead [2] to a suitable earthing point in the car (Fig. 1).

CONNECTIONS WHEN *NOT* USING AN ADAPTER CABLE

The connectors [13] (for power supply) and [14] (for loudspeakers) have been connected to the housing.

Aerial

Insert aerial plug into aerial socket [1].

Loudspeakers for versions with 2 x 25 W amplifier (Fig. 2b)

Ensure that the loudspeakers are connected in phase by using marked terminals or leads for the phase (+) connections.

3 = Right phase (**R** +) (grey)
4 = Right return (**R** –) (grey/black)
5 = Left phase (**L** +) (green)
6 = Left return (**L** –) (green/black)

- Insulate the ends of the unused loudspeaker leads of connector [14].

Loudspeakers for versions with 4 x 8 W or 2 x 25 W amplifiers

Four 8 W loudspeakers: (Fig. 2a)

1 = Rear Right phase (**RR** +) (blue)
2 = Rear Right return (**RR** –) (blue/black)
3 = Front Right phase (**FR** +) (grey)
4 = Front Right return (**FR** –) (grey/black)
5 = Front Left phase (**FL** +) (green)
6 = Front Left return (**FL** –) (green/black)
7 = Rear Left phase (**RL** +) (brown)
8 = Rear Left return (**RL** –) brown/black)

Two 25 W loudspeakers: (Fig. 2a)

2 = Right return (**R** –) (blue/black)
3 = Right phase (**R** +) (grey)
5 = Left phase (**L** +) (green)
8 = Left return (**L** –) brown/black)

- If 2 loudspeakers are connected, insulate the ends of the unused speaker leads of connector [14].

Do not connect any of the loudspeaker leads to earth!
Do not connect a booster/amplifier directly to the loudspeaker outputs!
Do not connect loudspeakers via an external fader!

Power supply (Fig. 1)

- **Earth:** First connect the brown lead [2] and the brown lead [11] from connector [13] together using a small connector block.
- Connect the earth leads to a suitable earthing point in the car.
- **+12 V supply:** Possible connecting points for the red lead [12]:
  – the 12 V lead for the radio (in the radio compartment);
  – the accessory contact of the ignition switch ⚷;
  – a contact in the fuse-box with permanent voltage.

  If the red lead [12] is connected to a terminal with permanent voltage, the yellow/red lead [8] need not be used. In that case the next • can be skipped.
- **+12 V permanent supply:** Connect the yellow/red lead [8] to a point of permanent supply in order to avoid entering the Security Code every time you switch on the radio if it remains in the car.

  Possible connecting points:
  – supply lead for interior car lighting;
  – supply lead for clock;
  – a contact in the fuse-box with permanent voltage.
- For **night illumination** ☼ of the radio (POWER button) use connection [9]. Connect the other end of the lead to the dashboard illumination wiring or to the ignition supply lead after the ignition switch.

Optional connections (Fig. 1)

- An **electronic aerial** or the control lead for the **relay of an automatic motor aerial** can be connected to terminal [10].

Do not use this connection point for supply of the aerial motor!

- **Line output:** You can connect a stereo power amplifier (with additional loudspeakers) to line-out socket [5]. Use adapter cable [4] 22 EA 6164 (DIN) or 22 EA 6197 (CINCH) which is available from your dealer. To minimize interference, use the same earthing point for radio and amplifier.

- **Telephone:** If there is a telephone in the car, the interconnection lead from the telephone can be connected to terminal ☎ [7] of the multi-plug [13].

- **CD changer:** (if installed) Insert the multi-plug into opening **C** of the housing until it locks.

INSTALLING HOUSING

Rear support: It is advisable to provide a support for the set at the rear of the housing. Certain cars are already provided with a rear support hole. If no such hole is available in your car, a rear support bracket should be fitted (Fig. 6). A suitable bracket is available from your dealer under type number 22 EA 1109.

- Screw the rubber buffer onto rear support stud [3] at the rear of the housing (Fig. 1).
- Slide the housing into the mounting aperture (Fig. 5), ensuring that the buffer slides into the rear support hole (Fig. 6).
- Bend all metal tags outwards behind the dashboard (Fig. 7). Any tags which cannot be bent outwards should be broken off.

- **Reconnect** the negative car battery terminal.

INSERTING SET (Fig. 8)

- Slide set into the housing (arrow ①).
- Push down handle to lock set into position (arrow ②).

The set is ready for use.

IMPORTANT: Before you drive off, always check that the handle is pushed fully downwards into the locked position.

INTERFERENCE SUPPRESSION

Most modern cars have sufficient interference suppression.
If you experience interference generated by the car, consult your garage.

REPLACING FUSE (Fig. 9)

- Pull fuse out of connecting block at rear of set.
- Replace with a 7.5 A blade type.

GUARANTEE AND SERVICE FOR UNITED KINGDOM

Philips sell this product subject to the understanding that if any defect in manufacture or material shall appear in it within 12 months from the date of consumer sale, the dealer from whom the product was purchased will arrange for such defect to be rectified without charge, provided:

1. Reasonable evidence is supplied that the product was purchased within 12 months prior to the date of claim.
2. The defect is not due to use of the product for other than domestic purposes, or on an incorrect voltage, or contrary to the Company's operating instructions, or to accidental damage (whether in transit or otherwise), misuse, neglect or inexpert repair.

Products sent for service should be adequately packed as no liability can be accepted for damage or loss in transit, and name and address must be enclosed.

Facts about free service

When service is required, apply to the dealer from whom the product was purchased. Should any difficulty be experienced in obtaining service, e.g. in the event of the dealer having ceased to trade, you are advised to contact Philips Service.

These statements do not affect the statutory rights of a consumer.

If you have any questions which your dealer cannot answer, please write to: ***Philips Consumer Relations, P.O. Box 298, 420 London Road, CROYDON CR9 3QR,***

or ☎ ***(01) 689 2166 Consumer Advice.***

Please retain this card. Produce if service is required.

GUARANTEE AND SERVICE VALID FOR IRELAND

This apparatus is made of high quality material and great care has been taken in its manufacture.

Philips, therefore, give you a guarantee on parts against failures arising from faulty workmanship or material for 12 months after date of purchase. This guarantee is valid on the condition that this certificate is completed and signed immediately on delivery of the apparatus. In case of failure ask your dealer for further information.

If you have any questions which your dealer cannot answer, you may apply to

Philips Electrical (Ireland) Ltd., Service Department, Newstead, Clonskeagh, DUBLIN 14 – ☎ 69 33 55.

GUARANTEE AND SERVICE VALID FOR AUSTRALIA

The benefits given to the purchaser by this warranty are in addition to all other rights and remedies, which under the Trade Practices Act or other Commonwealth or State law the purchaser or owner has in respect of the product.

Any defect in the product or in any of its ancillary equipment supplied by Philips Consumer Products which is due to either faulty material or workmanship and which becomes apparent within the period of 12 months from the date of installation, will be rectified without charge for parts or labour supplied at the premises of any Philips Service Centre or authorised Philips Car Radio Centre provided that:

a. The requisite information has been accurately completed on this form (which must accompany the product).

b. The product has not at any time been serviced other than by a Philips Service Centre or an authorised Philips Car Radio Centre, nor altered or tampered with in any way whatsoever and the defect is not due to misuse, negligence or other similar cause or electrical interference caused by the vehicle.

c. The cost of transportation both ways to Philips Service Centres or authorised Philips Car Radio Centres and any additional cost of removing any other equipment not ancillary to the product is paid by the claimant.

d. Any apparent defect or inadequacy in performance shall not have been caused by any ancillary equipment not supplied by Philips Consumer Products.

e. Any apparent fault shall not have been caused by faulty installation or the vehicle (including its electrical system).

Note: Should service be required, it is recommended that the product and car be made available to the authorised Philips Car Radio Centre.

Philips Consumer Products Division, Technology Park, Figtree Drive, Australia Centre, HOMEBUSH 2140, New South Wales.

GARANTIE ET SERVICE APRÈS-VENTE EN FRANCE

Cet appareil a été fabriqué avec le souci de vous donner entière satisfaction. **PHILIPS** fourniro gratuitement au vendeur les pièces détachées nécessaires à sa réparotion pendant une durée de 12 mois à compter de lo date de vente, sauf si lo détérioration résulte d'une couse étrangère à l'appareil ou du non respect des prescriptions d'utilisatian.

Vous bénéficierez en tout état de cause des dispositions des art. 1641 et suivants du Code Civil relatifs à la garontie légole.

Pour tout conseil ou intervention, odressez-vous à votre vendeur.

Pour tout renseignement complémentaire, vous pouvez vous odresser à la succursale Philips la plus proche.

Soucieux d'améliorer continuellement la quolité de nos produits, nous nous réservons le droit d'en modifier à tout moment les coractéristiques.

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SERVICE CONSOMMATEURS PHILIPS:
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☎ ***(16-1) 64 80 54 54***

GARANTIE FÜR DIE BUNDESREPUBLIK DEUTSCHLAND UND WEST-BERLIN

Philips-Geräte sind Markenartikel, die mit größter Präzision nach modernsten Fertigungsmethoden und mit einem Höchstmaß an Sorgfalt hergestellt werden. Das Gerät wird Ihnen gute Dienste leisten, vorausgesetzt daß Sie es sachgemöß bedienen und unterhalten.

Trotz aller Sorgfalt ist das Auftreten von Fehlern nicht auszuschließen. Ihr Partner für die Behebung derartiger Fehler ist Ihr Fachhändler, bei dem das Gerät erworben wurde. Falls ein Reklamationsfall eintritt, wenden Sie sich bitte unter Vorlage des Einkoufsbeleges und dieses Gerätepasses an Ihren Fochhändler.

GARANTIE EN BELGIQUE ET LUXEMBOURG

Pour les conditions de garantie en Belgique et Luxembourg veuillez vous référer à la carte de gorantie que le revendeur doit vous remettre au moment de l'achot.

• ***Paur la Belgique***

Si après l'achat de l'un ou l'autre appareil Philips vous avez des problèmes concernont par exemple la gorantie, le fonctionnement ou l'utilisation de ces appareils et que le distributeur qui vous a vendu ces opporeils éprouve des difficultés pour les résoudre, prenez contact, soit par téléphone, soit par écrit ovec notre service

'Contact Clientèle', Place de Brouckère 2, 1000 – BRUXELLES
☎ ***02/211 91 11***

GARANTIE EN SERVICE IN BELGIË EN LUXEMBURG

In België en Luxemburg gelden uitsluitend de gorontiebepalingen zoals die in het via uw handelaar apart verstrekte garantiebewijs staan aangegeven.

• ***Voor België***

Indien u na de aankoop van een of ander Philips apparaat problemen heeft met bijv. de woorborg, de werking, of het gebruik ervan, en indien de verdeler die u deze apparaten verkocht heeft moeilijkheden ondervindt om deze problemen op te lossen, stelt u zich dan telefonisch of schriftelijk in verbinding met onze dienst

'Klanten Kontakt', de Brouckèreplein 2, 1000 – BRUSSEL
☎ ***02/211 91 11***